



#### PUMP

GRUNDFOS SP submersible pumps are designed specifically for borehole supply applications. They are of multistage centrifugal impeller design and all parts are made from stainless steel with water lubricated rubber bearings. A submersible motor is fitted beneath the pump and suction is effected through a strainer between the pump and motor.

Standard pumps are designed for the pumping of non-aggressive water. 'N' and 'R' versions are available for applications requiring a higher degree of corrosion resistance.

All SP pumps carry a drinking water approval and meet European Minimum Efficiency Index guidelines.

#### MOTOR

Pumps are coupled to sealed canned type liquid cooled 2-pole asynchronous GRUNDFOS motors constructed of stainless steel. Motors require remote controllers, the DAYLIFF electronic controller, which provides full control against fluctuating power input as well as wireless low level control being recommended for smaller motors and the GRUNDFOS MP204, which provides additional protection from mechanical failure as well as advanced monitoring features for motors of 7.5kW and above. Note that due to the low starting torques of submersible motors Direct-on-Line starting is recommended for all motor sizes.

**Enclosure Class:** IP55

**Insulation Class:** B

**Speed:** 2900rpm

#### OPERATING CONDITIONS

**Pumped liquids:** Thin, clean, chemically non-aggressive liquids without solid particles or fibres..

**Max. Liquid Temperature:** +40°C

**Min. Borehole Diameter:** 110mm (4" motor), 152mm (6" motor)

#### PUMP DATA

| Model   | Motor |      | Motor Diameter<br>(") | Full Load Current (A) |        | Start Current (A) |        | DN<br>(") | Dimensions |      |     |     |      |     | Weight (Kgs) |        |
|---------|-------|------|-----------------------|-----------------------|--------|-------------------|--------|-----------|------------|------|-----|-----|------|-----|--------------|--------|
|         | kW    | HP   |                       | 1X240V                | 3X415V | 1X240V            | 3X415V |           | A          |      | B   |     | C    | E   | 1X240V       | 3X415V |
|         |       |      |                       |                       |        |                   |        |           |            |      |     |     |      |     |              |        |
| SP2A-9  | 0.37  | 0.5  | 4                     | 3.8                   |        | 13                |        | 1¼        | 600        |      | 256 |     | 344  | 101 | 11           |        |
| SP2A-13 | 0.55  | 0.75 |                       | 5.5                   |        | 19                |        |           | 719        |      | 291 |     | 428  |     | 13           |        |
| SP2A-18 | 0.75  | 1    |                       | 7.0                   |        | 26                |        |           | 839        |      | 306 |     | 533  |     | 15           |        |
| SP2A-23 | 1.1   | 1.5  |                       | 7.1                   | 3.7    | 31                | 16     |           | 984        | 944  | 346 | 306 | 638  |     | 17           | 16     |
| SP2A-33 | 1.5   | 2    |                       | 9.8                   | 4.4    | 38                | 21     |           | 1089       | 1190 | 346 | 346 | 844  |     | 19           | 19     |
| SP2A-48 | 2.2   | 3    |                       | 14.0                  | 5.7    | 62                | 26     |           | 1190       | 1554 | 346 | 346 | 1208 |     | 20           | 30     |
| SP2A-65 | 3     | 4    |                       |                       | 8.1    |                   | 35     |           |            | 2058 |     | 493 | 1565 |     |              | 41     |

| Model   | Motor |      | Motor Diameter<br>(") | Full Load Current (A) |        | Start Current (A) |        | DN<br>(") | Dimensions |        |        |        |      |      | Weight (Kgs) |        |     |     |    |
|---------|-------|------|-----------------------|-----------------------|--------|-------------------|--------|-----------|------------|--------|--------|--------|------|------|--------------|--------|-----|-----|----|
|         | kW    | HP   |                       | 1X240V                | 3X415V | 1X240V            | 3X415V |           | A          |        | B      |        | C    | E    | 1X240V       | 3X415V |     |     |    |
|         |       |      |                       |                       |        |                   |        |           | 1X240V     | 3X415V | 1X240V | 3X415V |      |      |              |        |     |     |    |
| SP3A-9  | 0.55  | 0.75 | 4                     | 5.5                   |        | 19                |        | 1¼        | 635        |        | 291    |        | 344  | 101  | 12           |        |     |     |    |
| SP3A-12 | 0.75  | 1    |                       | 7.0                   |        | 26                |        |           | 713        |        | 306    |        | 407  |      | 13           |        |     |     |    |
| SP3A-18 | 1.1   | 1.5  |                       | 7.1                   | 3.7    | 31                | 16     |           | 879        | 839    | 346    | 306    | 533  |      | 16           | 15     |     |     |    |
| SP3A-25 | 1.5   | 2    |                       | 9.8                   | 4.4    | 38                | 21     |           | 1026       | 1026   | 346    | 346    | 680  |      | 18           | 18     |     |     |    |
| SP3A-33 | 2.2   | 3    |                       | 14.0                  | 5.7    | 62                | 26     |           | 1421       | 1194   | 573    | 346    | 848  |      | 30           | 21     |     |     |    |
| SP3A-45 | 3     | 4    |                       |                       | 7.9    |                   | 35     |           |            | 1638   |        | 493    | 1145 |      |              | 34     |     |     |    |
| SP3A-60 | 4     | 5.5  |                       |                       | 9.6    |                   | 46     |           |            | 2033   |        | 573    | 1480 |      |              | 43     |     |     |    |
| SP5A-8  | 0.75  | 1    |                       | 6                     | 7.0    |                   | 26     |           | 1½         | 630    |        | 306    |      |      | 324          | 13     |     |     |    |
| SP5A-12 | 1.1   | 1.5  |                       |                       | 7.1    | 3.4               | 31     | 16        |            | 754    | 714    | 346    | 306  |      | 408          | 15     | 13  |     |    |
| SP5A-17 | 1.5   | 2    |                       |                       | 9.8    | 4.2               | 38     | 21        |            | 859    | 859    | 346    | 346  |      | 513          | 17     | 16  |     |    |
| SP5A-25 | 2.2   | 3    |                       |                       | 14.0   | 5.5               | 62     | 26        |            | 1254   | 1027   | 573    | 346  |      | 681          | 28     | 19  |     |    |
| SP5A-33 | 3     | 4    |                       |                       |        | 7.9               |        | 35        |            |        | 1342   |        | 493  |      | 849          |        | 26  |     |    |
| SP5A-44 | 4     | 5.5  |                       |                       |        | 9.6               |        | 46        |            |        | 1697   |        | 573  |      | 1124         |        | 38  |     |    |
| SP5A-60 | 5.5   | 7.5  |                       |                       |        | 13.0              |        | 64        |            |        | 2133   |        | 673  |      | 1460         |        | 60  |     |    |
| SP5A-75 | 7.5   | 10   |                       |                       | 16.6   |                   | 83     |           |            | 2711   |        | 565    | 2146 |      |              | 88     |     |     |    |
| SP7-17  | 2.2   | 3    | 4                     |                       |        | 5.5               |        | 26        |            |        | 1545   |        | 457  |      | 1088         |        | 27  |     |    |
| SP7-23  | 3     | 4    |                       |                       |        | 7.9               |        | 35        |            |        | 1885   |        | 497  |      | 1388         |        | 35  |     |    |
| SP7-31  | 4     | 5.5  |                       |                       |        | 9.7               |        | 58        |            |        | 2365   |        | 577  |      | 1788         |        | 44  |     |    |
| SP7-42  | 5.5   | 7.5  |                       |                       |        | 13.0              |        | 82        |            |        | 3105   |        | 677  |      | 2428         |        | 55  |     |    |
| SP7-59  | 7.5   | 10   |                       |                       |        | 18.8              |        | 118       |            |        | 3965   |        | 777  |      | 3188         |        | 79  |     |    |
| SP9-8   | 1.5   | 2    |                       |                       | 6      | 10.2              | 4.2    | 56        |            | 21     | 2      | 1025   | 1025 | 387  | 387          | 638    | 140 | 22  | 22 |
| SP9-11  | 2.2   | 3    |                       | 14.0                  |        | 5.5               | 98     | 26        | 1365       | 1175   |        | 577    | 788  | 34   |              | 25     |     |     |    |
| SP9-16  | 3     | 4    |                       |                       |        | 7.9               |        | 35        |            | 1535   |        |        | 497  | 1038 |              | 56     |     |     |    |
| SP9-21  |       |      |                       |                       |        | 9.6               |        | 58        |            | 1865   |        |        | 577  | 1288 |              | 44     |     |     |    |
| SP9-25  | 5.5   | 7.5  |                       |                       |        | 13.0              |        | 82        |            | 2165   |        |        | 677  | 1488 |              | 80     |     |     |    |
| SP9-29  |       |      |                       |                       |        |                   |        |           |            | 2365   |        |        | 1688 |      | 83           |        |     |     |    |
| SP9-36  | 7.5   | 10   |                       |                       |        | 18.8              |        | 118       |            | 2815   |        |        | 777  | 2038 |              | 94     |     |     |    |
| SP9-40  |       |      |                       | 6                     |        |                   | 17.2   |           | 105        |        |        | 2878   |      | 577  | 2301         |        |     | 106 |    |
| SP9-48  | 9.2   | 12   |                       |                       |        |                   | 21.2   |           | 110        |        |        | 3308   |      | 607  | 2701         |        |     | 126 |    |
| SP9-52  | 11    | 15   |                       |                       |        | 25                |        | 107       |            | 3538   |        |        | 637  | 2901 |              | 132    |     |     |    |
| SP11-11 | 2.2   | 3    | 4                     |                       |        |                   | 5.7    |           | 27         | 2      |        |        | 1409 |      | 346          | 1063   |     | 101 |    |
| SP11-15 | 3     | 4    |                       |                       |        | 8.1               |        | 40        |            |        |        | 1860   |      | 497  | 1363         |        |     |     | 34 |
| SP11-20 | 4     | 5.5  |                       |                       |        | 9.8               |        | 52        |            |        |        | 2315   |      | 577  | 1738         |        |     |     | 42 |
| SP11-27 | 5.5   | 7.5  |                       |                       |        | 13.4              |        | 74        |            |        |        | 2940   |      | 677  | 2263         |        |     |     | 52 |
| SP11-37 | 7.5   | 10   |                       |                       | 19.6   |                   | 108    |           | 3790       |        |        | 777    | 3013 |      | 64           |        |     |     |    |
| SP14-6  | 1.5   | 2    |                       | 10                    | 4.2    | 40                | 21     | 1034      | 1075       |        | 346    | 387    | 688  | 23   | 22           |        |     |     |    |
| SP14-8  | 2.2   | 3    |                       | 14                    | 5.5    | 62                | 23     | 1414      | 1225       |        | 576    | 87     | 838  | 34   | 25           |        |     |     |    |
| SP14-13 | 3     | 4    |                       |                       | 7.9    |                   | 35     |           | 1710       |        |        | 497    | 1213 |      | 38           |        |     |     |    |
| SP14-17 | 4     | 5    |                       |                       | 9.6    |                   | 58     |           | 2090       |        |        | 577    | 1513 |      | 74           |        |     |     |    |
| SP14-23 | 5.5   | 7    |                       |                       | 13.7   |                   | 75     |           | 2640       |        |        | 677    | 1963 |      | 87           |        |     |     |    |
| SP14-27 | 7.5   | 10   |                       | 6                     |        | 17.2              |        | 105       |            |        | 2903   |        | 577  | 2326 | 140          |        | 107 |     |    |

E\*=Maximum diameter of the pump inclusive of cable guard and motor

